10/8/911

Naoko KIDA et al. Atty. Dkt.: Q95279 Preliminary Amendment

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF	CLAIMS:	:) [726
	(original):	A method for engineering cartilage tissue by three-dimensionally	4 n	nalovits
culturing bone marrow cells in a simulated microgravity environment.				
B	, , ,	The method according to claim 1, wherein the simulated microgra		
environment provides gravity that is-1/10 to 1/100 of the ground gravity to an object on a time-				
average basis.	7	(OZ FZZ 6907)-Unswork	h Chec E	K This
$\left(\frac{3}{3}\right)$	•	amended): The method according to claim 1-or-2, wherein the	•	1
simulated mic	rogravity er	nvironment is attained with the use of a bioreactor that realizes a	101	722
simulated microgravity environment on the earth by compensating the ground-gravity by with				
the stress resulting from rotation.				
(A.)		The method according to claim 3, wherein the bioreactor that real	() L lizes	1722
a simulated microgravity environment on the ground is a uniaxial rotary bioreactor;				
5.	(original):	The method according to claim 4, wherein the bioreactor that real	ikes Z	17.20
a simulated m	icrogravity	environment on the ground is a Rotating Wall Vessel (RWV)		1+24
bioreactor.				

Naoko KIDA et al. Atty. Dkt.: Q95279 Preliminary Amendment (original): The method according to claim 5, wherein culture is conducted by 103 seeding bone marrow cells at a density of 106 to 107 cells/cm3 at a rotation speed of 8.5 to 25 rpm John 650 ed 6 35-40 (currently amended): The method according to any one of claims 1 to 6claim 1, wherein culture is conducted by adding TGF-β and/or dexamethasone to a culture medium. Col4/n 3-5 (currently amended): The method according to any one of claims 1 to 7claim 1, bone marrow cells are two dimensionally cultured to confluence, subcultured, and then 2722 red in a simulated microgravity environment (currently amended): The method according to any one of claims 1 to 8claim 1, wherein the bone marrow cells are isolated from a patientsubject in need of transplantation of the engineered cartilage tissue Col 4 monslayer mot 1-5, 7-9 1722 = 1650 102 (03

1× 10-2= 0,01